



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 09 DEC 2003

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Applicant's or agent's file reference MG/P33020 FOR FURTHER ACTIO			FOR FURTHER AC	TION See Notification Preliminary Exa	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No. International filing date PCT/EP 03/03195 25.03.2003			International filing date (a 25.03.2003	lay/month/year)	Priority date (day/month/year) 27.03.2002		
Internatio	onal P	atent Classification (IPC) or both national classification ar	nd IPC			
International Patent Classification (IPC) or both national classification and IPC C07D471/04							
Applicant GLAXO GROUP LIMITED et al.							
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. TI	his Ri	EPORT consists of a	total of 4 sheets, including th	is cover sheet.			
	1-	dad and ar	ompanied by ANNEXES, i.e. s e the basis for this report and/ ection 607 of the Administrati	or sneets containing t	on, claims and/or drawings which have ectifications made patore this Authority the PCT).		
Т	These annexes consist of a total of sheets.						
3. T	his re	port contains indicati	ons relating to the following ite	ems:	·		
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		J Fliolity Non-octoblishme	ent of opinion with regard to n	ovelty, inventive step	and industrial applicability		
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1	 IV Lack of unity of invention V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 						
\	/! [Certain docume					
1 '	VII Certain defects in the international application						
1	/III [tions on the international appl		•		
VIII							
Date of culpmission of the demand Date of completion of this report							
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16.10.2003				05.12.2003			
Name and mailing address of the international preliminary examining authority:				Authorized Officer	September 1900 Page 1900 P		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/03195

	D:		41		
I.	Basi	s oi	ıne	reb	OΙL

1.	the	e receiving Office in response to an	ternational application (Replacement sheets which f invitation under Article 14 are referred to in this rep ice they do not contain amendments (Rules 70.16 a	ort as "originally filed"
	Des	escription, Pages		
	1-2	26 as o	riginally filed	
	Cla	aims, Numbers		
	1-5	as o	riginally filed	
2.	With lang	ith regard to the language, all the e nguage in which the international ap	elements marked above were available or furnished oplication was filed, unless otherwise indicated unde	to this Authority in the r this item.
	The	nese elements were available or furr	nished to this Authority in the following language:	, which is:
		the language of a translation furni	ished for the purposes of the international search (u	nder Rule 23.1(b)).
		the language of publication of the	international application (under Hule 43.3(b)).	•
		the language of a translation furni Rule 55.2 and/or 55.3).	ished for the purpodas of international p ംliminary e	xamination (under

		the language of publication of the international application (under Hule 43.3(b)).	
		the language of a translation furnished for the purposes of international polliminary examination (under Rule 55.2 and/or 55.3).	
3.	3. With regard to any nucleotide and/or amino acid sequence and the international application, the international preliminary examination was carried out on the basis of the sequence listing:		
		contained in the international application in written form.	
		filed together with the international application in computer readable form.	
		furnished subsequently to this Authority in written form.	
		furnished subsequently to this Authority in computer readable form.	
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.	
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.	

4. The amendments have resulted in the cancellation of:

the description,	pages:
the claims,	Nos.:
the drawings,	sheets:

5.

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims

1-5

Inventive step (IS)

Yes: Claims

1-5

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No: Claims

Industrial applicability (IA)

Yes: Claims

1-5

No: Claims

No:

2. Citations and explanations

see separate sheet

point V:

The present application relates to quinoline and aza-indole derivatives which are active as 5-HT6 ligands and may be used in the treatment of CNS disorders.

The characteristic structural features of the compounds claimed are as follows:

- an N-hetero bicyclic system; see the radical Q which is
- substituted by a piperazine moiety and by
- an aryl radical (symbol A) whereby
- the aryl radical is linked via a sulphone bridging member.

Compounds showing this combination of structural features are neither disclosed nor made obvious by the available prior art.

The two documents cited in the Intern. Search report refer to sulfamides and are therefore not relevant; WO 99/65906 - see the radical R⁵, WO 01/12629 - see the radical R¹.

The recomments of Art.33(2) (3) are deemed to be met.